

DEPARTMENT OF REGULATORY AND ECONOMIC RESOURCES (RER) BOARD AND CODE ADMINISTRATION DIVISION

NOTICE OF ACCEPTANCE (NOA)

MIAMI-DADE COUNTY PRODUCT CONTROL SECTION 11805 SW 26 Street, Room 208

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www.miamidade.gov/economy

Miami, Florida 33175-2474

The Airolite Company, LLC P.O. Box 410 Schofield, WI 54476

SCOPE:

This NOA is being issued under the applicable rules and regulations governing the use of construction materials. The documentation submitted has been reviewed and accepted by Miami-Dade County RER - Product Control Section to be used in Miami Dade County and other areas where allowed by the Authority Having Jurisdiction (AHJ).

This NOA shall not be valid after the expiration date stated below. The Miami-Dade County Product Control Section (In Miami Dade County) and/or the AHJ (in areas other than Miami Dade County) reserve the right to have this product or material tested for quality assurance purposes. If this product or material fails to perform in the accepted manner, the manufacturer will incur the expense of such testing and the AHJ may immediately revoke, modify, or suspend the use of such product or material within their jurisdiction. RER reserves the right to revoke this acceptance, if it is determined by Miami-Dade County Product Control Section that this product or material fails to meet the requirements of the applicable building code. This product is approved as described herein, and has been designed to comply with the Florida Building Code, including the High Velocity Hurricane Zone.

DESCRIPTION: Model K6746MDE Aluminum Louver

APPROVAL DOCUMENT: Drawing No. **K6746MDE**, titled "K6746MDE NOA Drawings", sheets 1 through 9 of 9, dated 10/27/2015, prepared by Greenheck Fan Corporation, signed and sealed by Chander P. Nangia, P.E., bearing the Miami-Dade County Product Control approval stamp with the Notice of Acceptance number and approval date by the Miami-Dade County Product Control Section.

MISSILE IMPACT RATING: Large and Small Missile Impact Resistant

LABELING: Each unit shall bear a permanent label with the manufacturer's name or logo, city, state, model/series, and following statement: "Miami-Dade County Product Control Approved", unless otherwise noted herein.

RENEWAL of this NOA shall be considered after a renewal application has been filed and there has been no change in the applicable building code negatively affecting the performance of this product.

TERMINATION of this NOA will occur after the expiration date or if there has been a revision or change in the materials, use, and/or manufacture of the product or process. Misuse of this NOA as an endorsement of any product, for sales, advertising or any other purposes shall automatically terminate this NOA. Failure to comply with any section of this NOA shall be cause for termination and removal of NOA.

ADVERTISEMENT: The NOA number preceded by the words Miami-Dade County, Florida, and followed by the expiration date may be displayed in advertising literature. If any portion of the NOA is displayed, then it shall be done in its entirety.

INSPECTION: A copy of this entire NOA shall be provided to the user by the manufacturer or its distributors and shall be available for inspection at the job site at the request of the Building Official. This NOA consists of this page 1 and evidence page E-1, as well as approval document mentioned above. The submitted documentation was reviewed by **Carlos M. Utrera, P.E.**

MIAMI-DADE COUNTY
APPROVED

1 1/28/2016

NOA No. 15-1109.05 Expiration Date: February 4, 2021 Approval Date: February 4, 2016

Page 1

NOTICE OF ACCEPTANCE: EVIDENCE SUBMITTED

A. DRAWINGS

1. Drawing No. **K6746MDE**, titled "K6746MDE NOA Drawings", sheets 1 through 9 of 9, dated 10/27/2015, prepared by Greenheck Fan Corporation, signed and sealed by Chander P. Nangia, P.E.

B. TESTS

- 1. Test report on 1) Uniform Static Air Pressure Test per FBC, TAS 202-94
 - 2) Large Missile Impact Test per FBC, TAS 201-94,
 - 3) Cyclic Wind Pressure Test per FBC, TAS 203-94,

along with marked-up drawings and installation diagram of Model K6746MDE (sleeved) aluminum louvers, prepared by Architectural Testing, Inc., Test Report No. **F0132.01-602-18**, dated 10/26/2015, signed and sealed by Justin P. McDonald, P.E.

- 2. Test report on 1) Uniform Static Air Pressure Test per FBC, TAS 202-94
 - 2) Large Missile Impact Test per FBC, TAS 201-94,
 - 3) Cyclic Wind Pressure Test per FBC, TAS 203-94,

along with marked-up drawings and installation diagram of Model K6746MDE (non-sleeved) aluminum louvers, prepared by Architectural Testing, Inc., Test Report No. **F0133.01-602-18**, dated 08/27/2015, signed and sealed by Justin P. McDonald, P.E.

C. CALCULATIONS

1. Structural and anchors calculations prepared by Chander P. Nangia, P.E., dated 10/26/2015, signed and sealed by Chander P. Nangia, P.E.

D. OUALITY ASSURANCE

1. Miami-Dade Department of Regulatory and Economic Resources (RER)

E. MATERIAL CERTIFICATIONS

1. None.

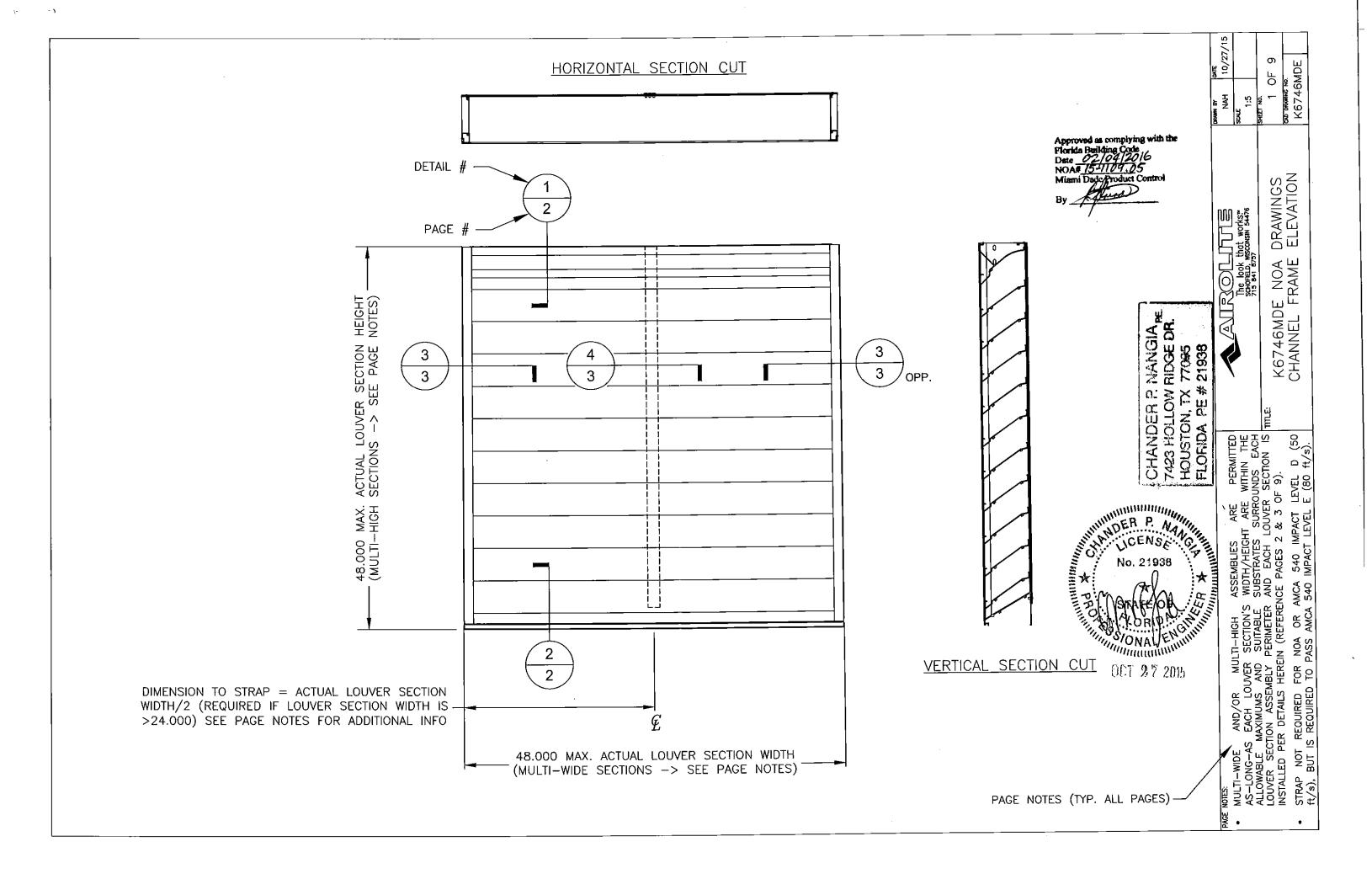
F. STATEMENTS

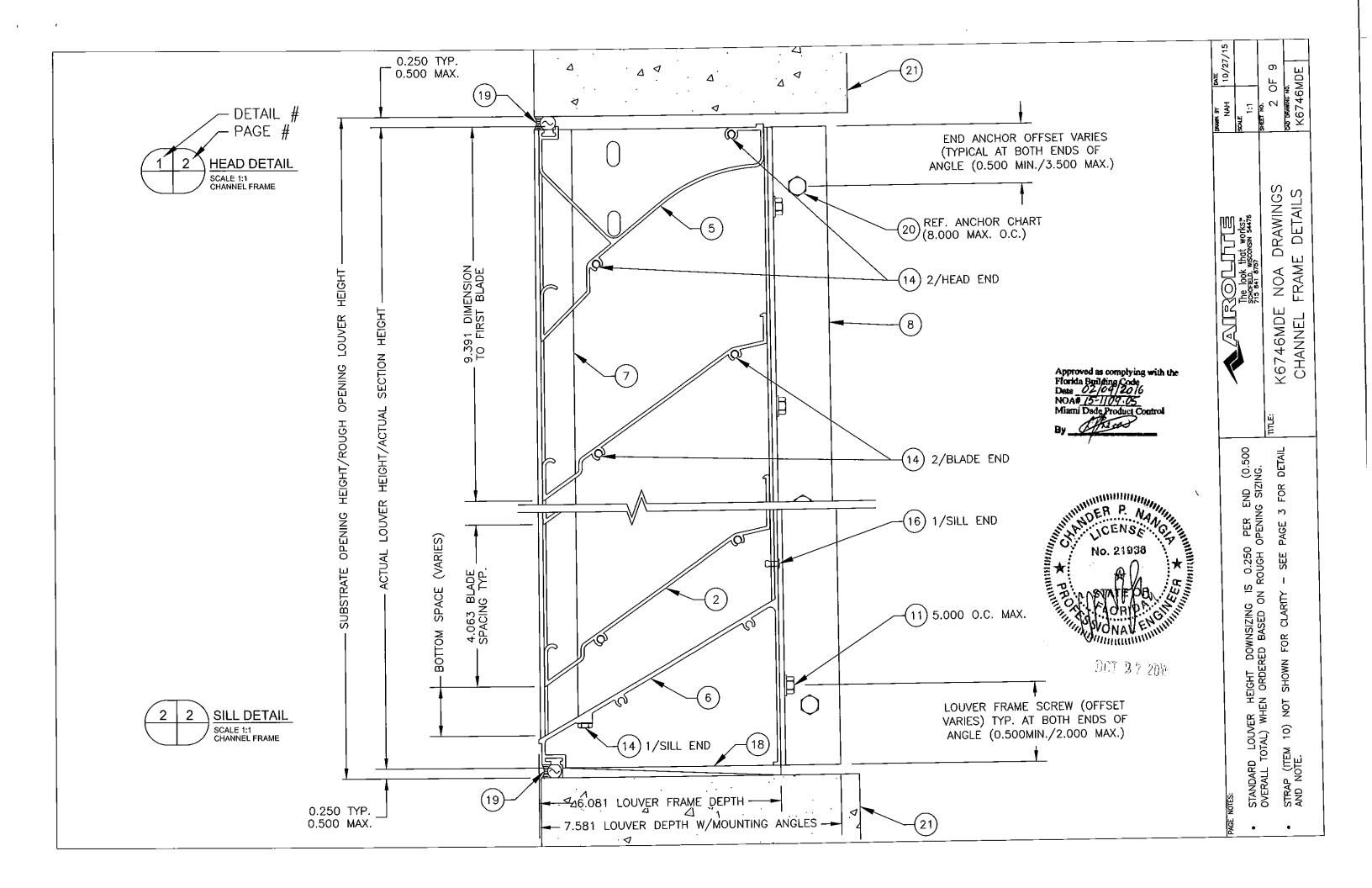
- 1. Statement letter of code compliance to the 5th edition (2014) FBC issued by Chander P. Nangia, P.E., dated 10/27/2015, signed and sealed by Chander P. Nangia, P.E.
- 2. Statement letter of no financial interest issued by Chander P. Nangia, P.E., dated 10/27/2015, signed and sealed by Chander P. Nangia, P.E.

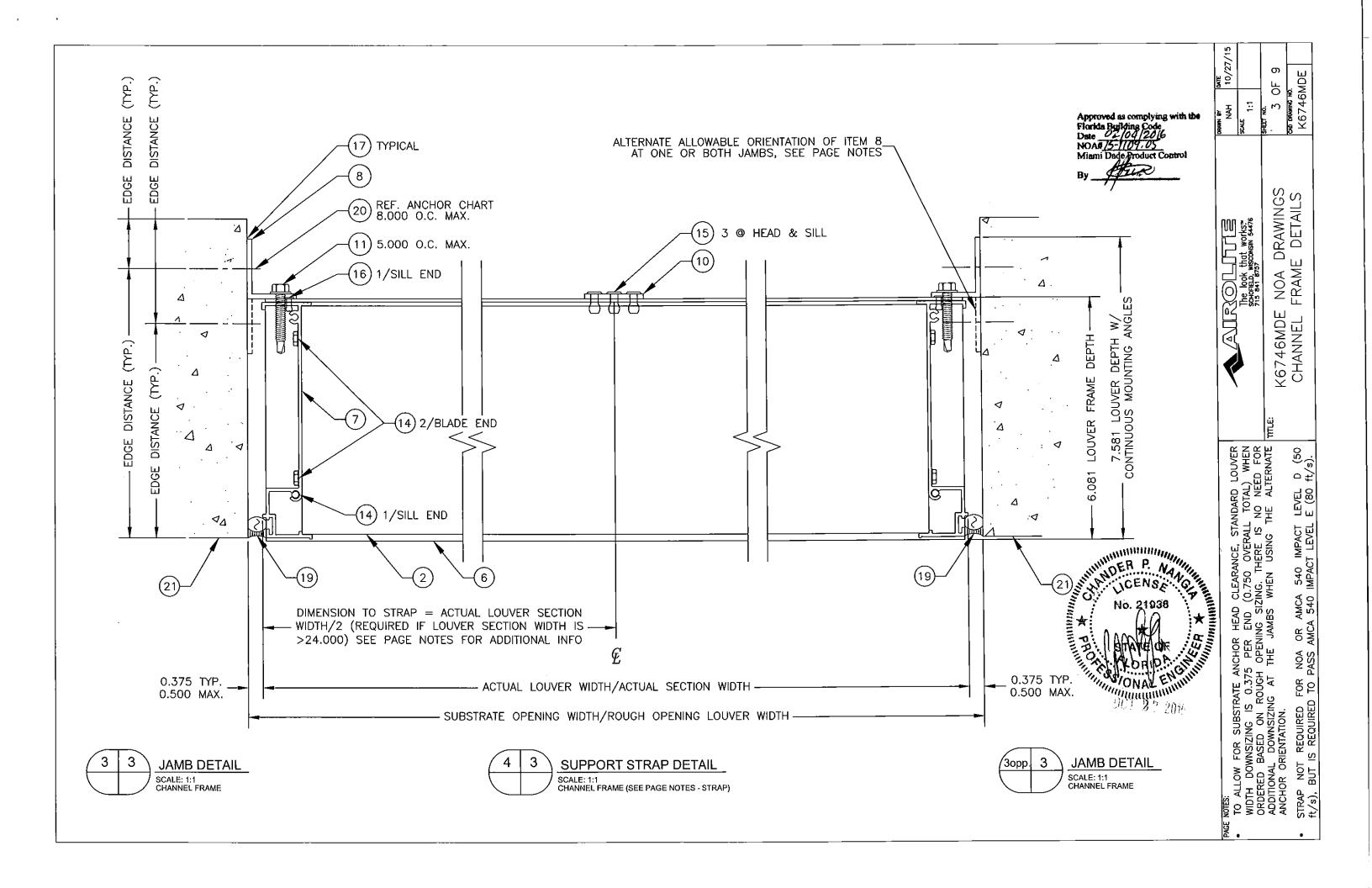
Carlos M. Utrera, P.E. Product Control Examiner

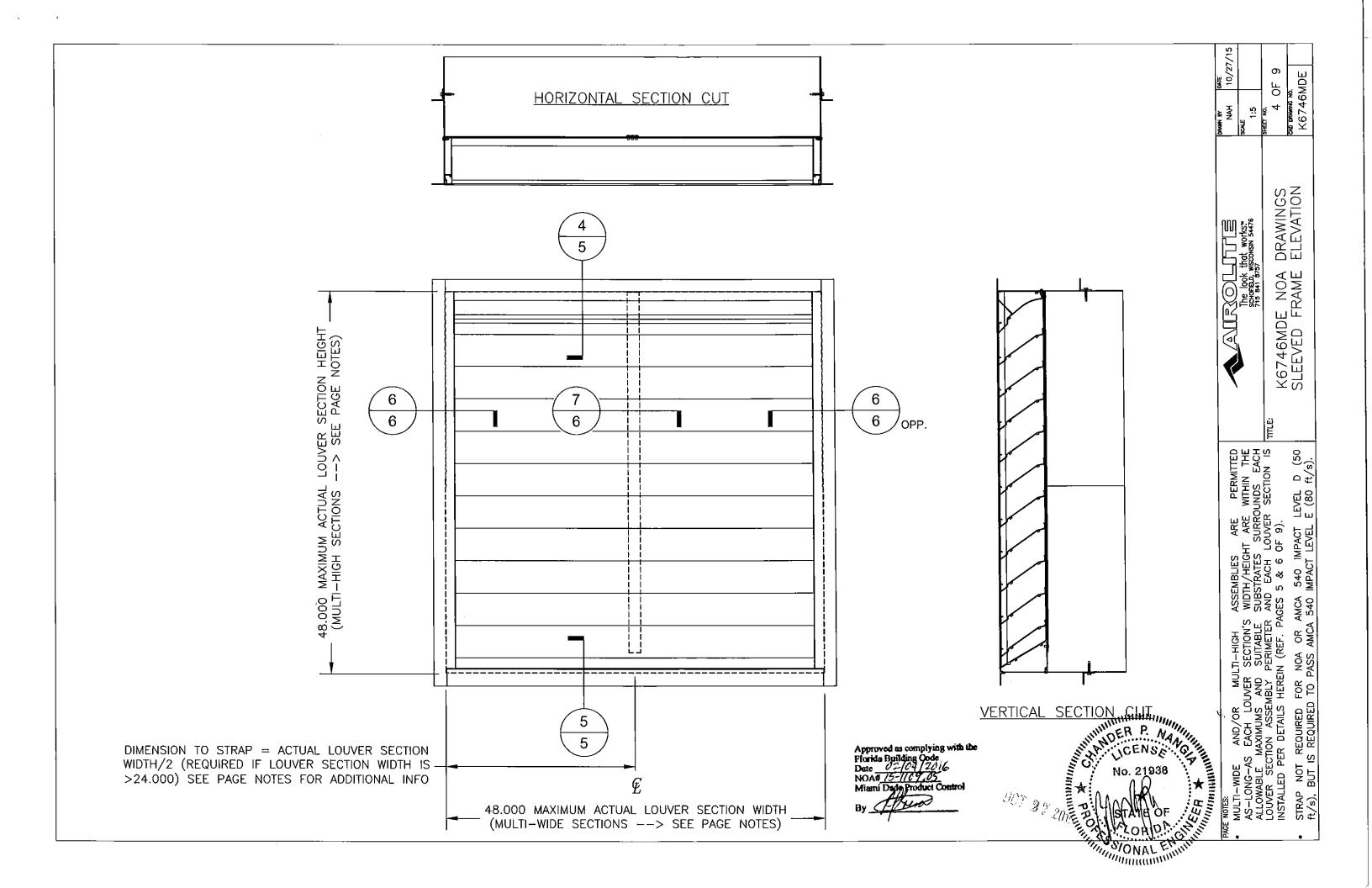
NOA No. 15-1109.05

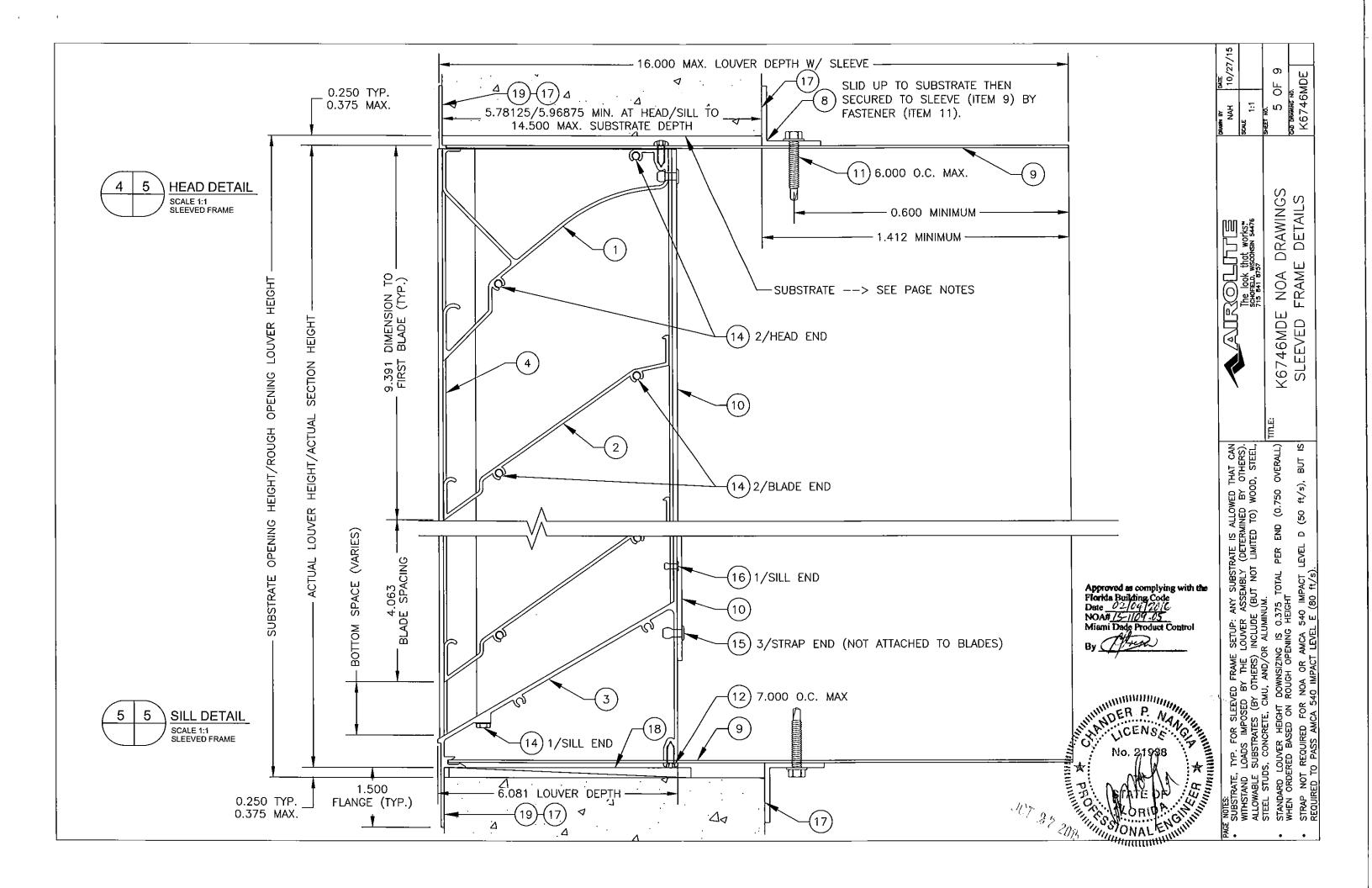
Expiration Date: February 4, 2021 Approval Date: February 4, 2016

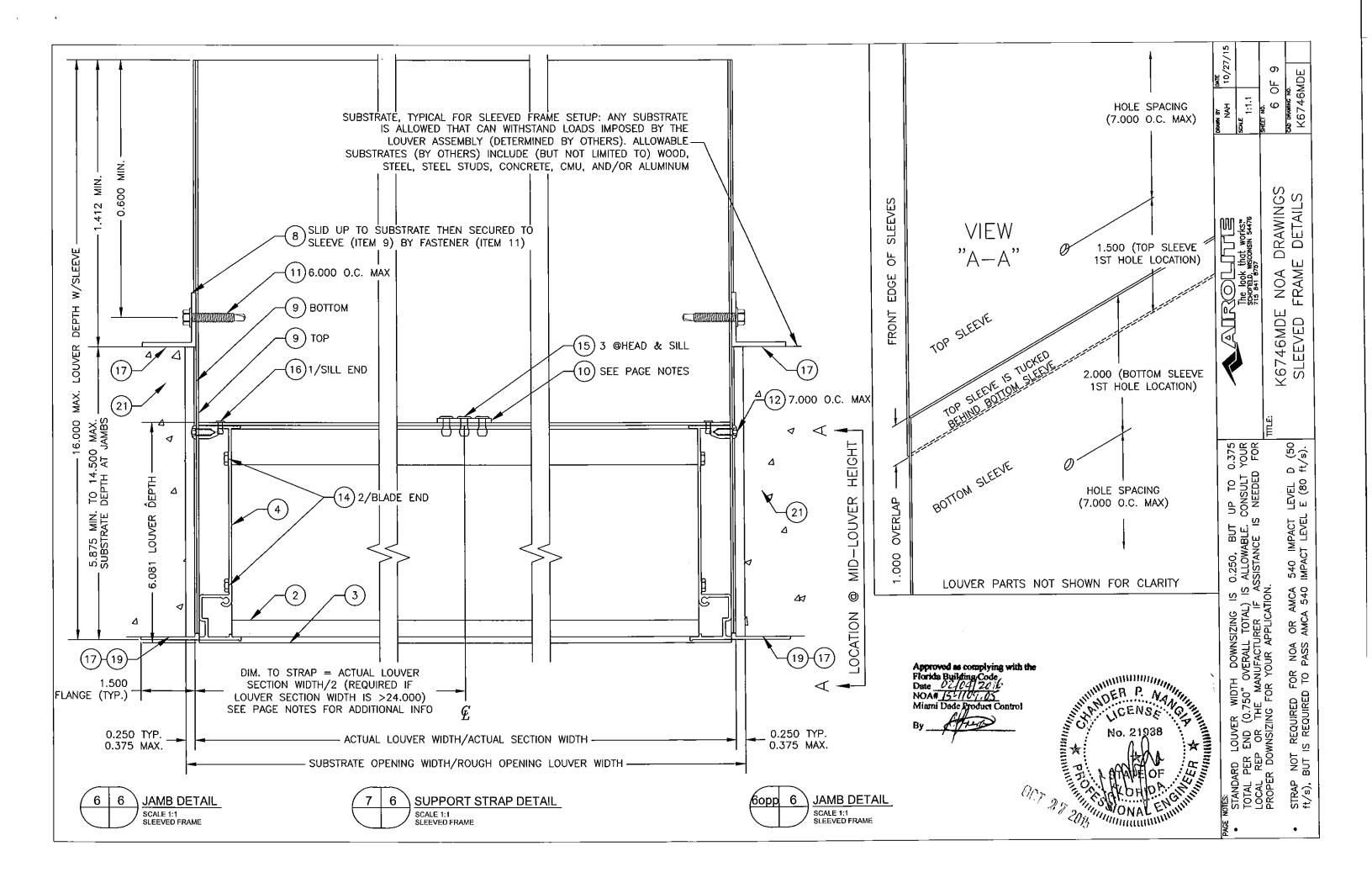


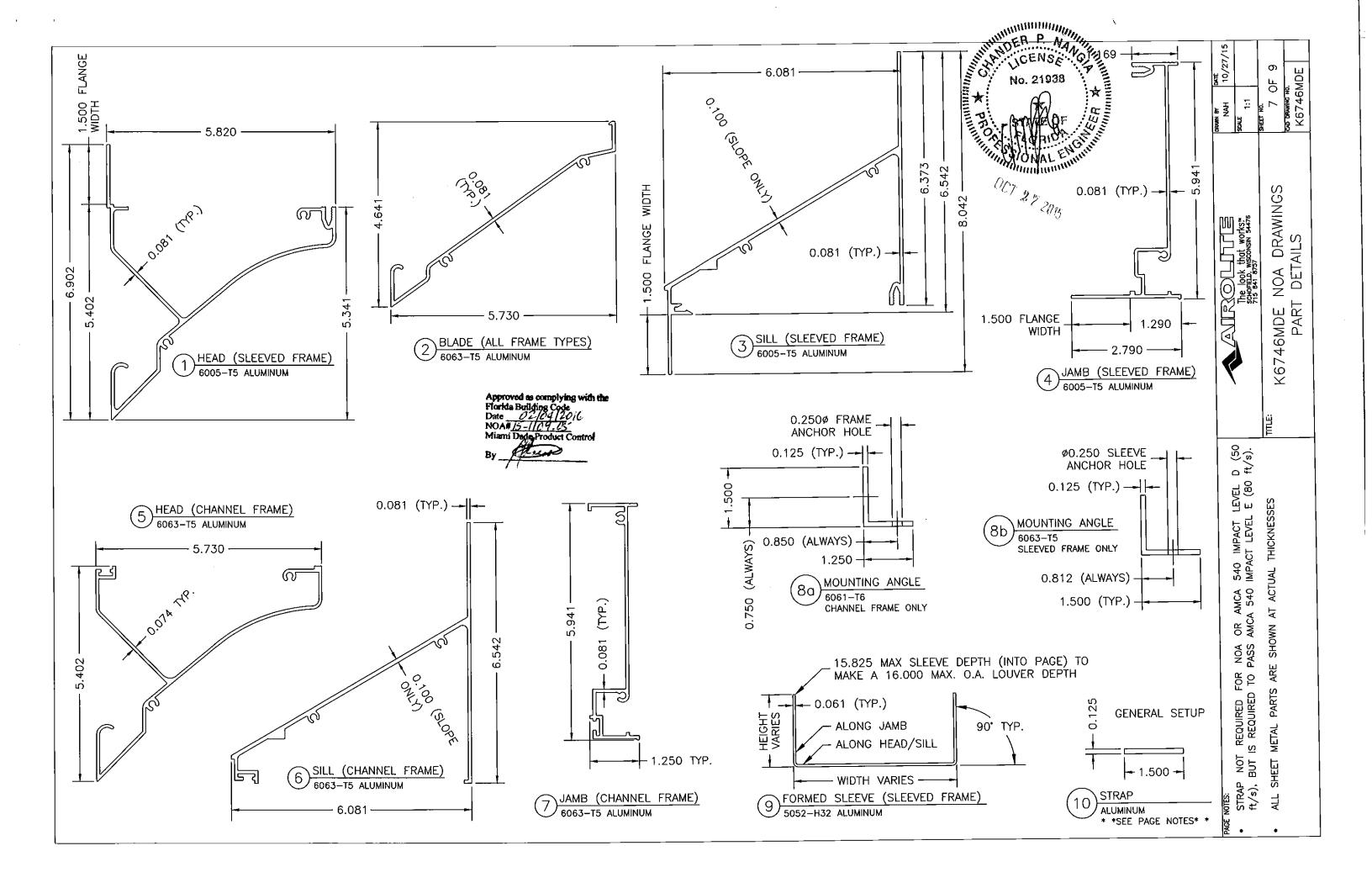












ITEM	DESCRIPTION	MATERIAL	INTERNAL ID#	NOTES				
1	HEAD	6005-T5 ALUMINUM	126098	SLEEVED FRAME ONLY				
2	BLADE	6063-T5 ALUMINUM	125263	4.063' D.C. SPACING (TYPICAL ALL UNITS)				
3	SILL	6005-T5 ALUMINUM	126099	SLEEVED FRAME CINLY				
4	JAMB	6005-T5 ALUMINUM	126100	SLEEVED FRAME ONLY				
5	HEAD	6063-T5 ALUMINUM	125043	CHANNEL FRAME (NON-SLEEVED) ONLY				
6	SILL	6063-T5 ALUMINUM	125867	CHANNEL FRAME (NON-SLEEVED) ONLY				
7	JAMB	6063-T5 ALUMINUM	125045	CHANNEL FRAME (NON-SLEEVED) ONLY				
8a	MOUNTING ANGLE (CHANNEL FRAME)	6061-T6	125811	TYPICAL AT JAMBS ONLY				
8b	MOUNTING ANGLE (SLEEVED FRAME)	6063~T5	125151	TYPICAL AROUND SLEEVE PERIMETER				
9	SLEEVE	5052-H32 ALUMINUM	100172	0.061 ACTUAL THICKNESS				
10	STRAP	ALUMINUM	130311	ATTACHED @ HEAD/SILL ONLY, NOT REQ'D FOR NOA				
			-					
11	1/4-20×1.500L SCREW, HILTI KWIK-FLEX, SUPPLIED BY LOUVER MANUFACTURER	COATED STEEL	416581	8.000 D.C. MAX. (CHANNEL FRAME) AND 6.000 D.C. MAX. (SLEEVED FRAME), SHORTER DVERALL LENGTH (WITH 0.313 MIN THREADED LENGTH) ALLOWABLE				
12	#10-16×0.500L SCREW	300 SERIES SS	417207	7.000 MAX. ON CENTERS - TYPICAL SLEEVED UNITS ONLY				
13	NOT USED							
14	#10-16x2.250L SCREW	300 SERIES SS	416351					
15	3/16'Ø RIVET	300 SERIES SS	416588	NOT REQUIRED FOR NOA				
16	1/8'ø RIVET	ALUMINUM	415194					
17	SHIM/SEPARATE DISSIMILAR MATL'S AS REQ'D	VARIES	N/A	BY OTHERS AS NEEDED				
18	SHIM, NON-COMPRESSIBLE	VARIES	N/A	BY DTHERS, DPTIONAL				
19	SEALANT AND BACKER ROD	VARIES	N/A	BY DTHERS, DPTIONAL				
20	SUBSTRATE FASTENER - SEE ANCHOR TABLE	SEE ANCHOR TABLE	N/A	BY DTHERS, MINIMUM OF ONE TYPE REQUIRED, SEE ANCHOR TABLE FOR ADDITIONAL INFORMATION				
	SUBSTRATE - GROUT FILLED CMU	GROUT FILLED CMU	N/A	BY OTHERS, MINIMUM OF ONE SUBSTRATE TYPE				
21	SUBSTRATE - CONCRETE	CONCRETE	N/A	REQUIRED, SEE ANCHOR TABLE FOR NEEDED EDGE				
	SUBSTRATE - STEEL STUD	STEEL	N/A	DISTANCE, SPACING, EMBEDMENT, ETC.				
	SUBSTRATE - STRUCTURAL STEEL	STEEL	N/A	IT IS THE RESPONSIBILITY OF THE PERMIT HOLDER TO VERIFY AND TO FACILITATE SEPARATION OF				
	SUBSTRATE - WOOD	VÕOD	N/A					
<u> </u>	SUBSTRATE - ALUMINUM	ALUMINUM	N/A	DISSIMILAR MATERIALS.				

6. INSTALLER TO PROVIDE SEPARATION OF DIS-SIMILAR MATERIALS AS REQUIRED (SEE CURRENT FLORIDA BUILDING CODE). SEE OLDER 2010 FLORIDA BUILDING CODE SECTION 2003.8.4 FOR ADDITIONAL INFORMATION ON SEPARATION OF DIS-SIMILAR MATERIALS.

K6746MDE

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746MDE NOA DRAWINGS SCRIPTIONS/GENERAL NOTES

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7. STEEL, STAINLESS STEEL, AND ALUMINUM PARTS MAY BE MADE OUT OF ALTERNATE ALLOY THAT HAS EQUAL OR GREATER YIELD STRENGTH. PART DIMENSIONS ARE MINIMUMS UNLESS DEFINED OTHERWISE.

9. THE INTERNAL ID NUMBERS SHOWN ON THIS PAGE ARE FOR FACTORY PURPOSES ONLY AND MAY BE UPDATED AT ANY TIME. ANY UPDATES WILL NOT ALTER THE ITEM AS DESCRIBED HEREIN.

10. THE LOUVER IS NOT DESIGNED TO PREVENT WIND-DRIVEN RAIN FROM PENETRATING INTO THE SPACE BEHIND THE LOUVER. THE LOUVER SHALL BE INSTALLED IN A LOCATION WHERE THE SPACE BEHIND THE LOUVER IS DESIGNED TO DRAIN WATER PENETRATING INTO THE ROOM OR THE ROOM WILL HOUSE WATER RESISTANT/PROOF EQUIPMENT, COMPONENTS, OR SUPPLIES.

10. ALL DIMENSION UNITS ARE IMPERIAL.

No. 21938 NONAL EN WANT ENTINE

GENERAL NOTES:

1. IT IS THE RESPONSIBILITY OF THE PERMIT HOLDER TO VERIFY THE STRUCTURAL INTEGRITY OF THE EXISTING STRUCTURE TO SUPPORT THE LOADS IMPOSED BY THE LOUVER ASSEMBLY. THE LOUVER MANUFACTURER DOES NOT DETERMINE THE STRUCTURAL INTEGRITY OF THE SUBSTRATE STRUCTURE.

2. THE LOUVER HAS BEEN DESIGNED AND TESTED IN ACCORDANCE WITH MIAMI-DADE COUNTY PROTOCOLS (AND QUALIFIED IN ACCORDANCE WITH THE CURRENT FLORIDA BUILDING CODE AND TEST PROTOCOLS/STANDARDS THEREIN):

TAS-201 (LARGE MISSILE IMPACT TEST)

TAS-202 (UNIFORM STATIC WIND PRESSURE TEST)

TAS-203 (UNIFORM CYCLIC WIND PRESSURE TEST)

- 3. THIS LOUVER HAS BEEN DESIGNED, TESTED, AND APPROVED TO WITHSTAND DESIGN PRESSURES OF UP TO AND INCLUDING +/-150PSF.
- 4. THE MAXIMUM SINGLE SECTION SIZE IS 48 INCHES WIDE BY 48 INCHES HIGH. MULTIPLE SECTIONS MAY BE MOUNTED TOGETHER TO CREATE A MULTI-WIDE AND/OR MULTI-HIGH ASSEMBLY PROVIDED THERE IS ADEQUATE SUBSTRATE ON ALL FOUR SIDES OF EACH SINGLE SECTION AND SECURED TO THE SUBSTRATE AS NOTED HEREIN.
- 5. GENERAL LOUVER CONSTRUCTION: HEAD, SILL, JAMBS, AND BLADES FOR ALL CASES ARE EXTRUDED ALUMINUM (SEE PAGE 7 FOR ALLOY TYPES). THE BLADE SPACING IS 4.063 INCHES. BLADES AND HEADS ARE SECURED TO THE JAMBS WITH TWO SCREWS PER END. THE SILLS ARE SECURED TO THE JAMBS WITH ONE SCREW AND ONE RIVET PER SILL END. STRAP NOT REQUIRED FOR NOA OR AMCA 540 IMPACT LEVEL D (50 ft/s), BUT IS REQUIRED TO PASS AMCA 540 IMPACT LEVEL E (80 ft/s).

Approved as complying with the Florida Building Gode
Date 2-04/2016
NOA# 15-110 5-05
Miami Dade Product Control

	- ·		SUBSTRATE AND SU	JBSTRATE	FASTE	NER TAE	BLE							/27/15	6 T.
ITEM	21, SUBSTRA	TE			ITEM 20	, SUBSTR	ATE FASTE	NER						10 ± 0 ± 0 ± 0 ± 0 ± 0 ± 0 ± 0 ± 0 ± 0 ±	
TYPE	THICKNESS MIN	MATERIAL MIN	TYPE (ALL FASTENERS ARE HEX HEAD STYLE)	MAT'L	DIA.	EDGE MIN	EMBED. MIN	SPACING MAX	SPACING MIN	HEAD DIA. MIN	ANGLE HOLE ITEM 5, MAX	SUBSTRATE HOLE, MAX		N BY NAH 1:1.2	SHEET NO. 9 OF 9 CAD DRAWING NO.
מסטא	3	G OF 0.42	LAG SCREW, 3 INCH MIN LENGTH	*	1/4 3/8	1 1/2	23/32	5 3/4 6 1/4	3	1/2 5/8	5/16 7/16	SEE FASTENER MANUFACTURER		BRANN	景 3 -
STEEL	16 GA (0,056)	Fy 33 KSI	BOLT W/ NUT		1/4-20	1 1/ 2	0.056	8	3	1/2 HEAD 9/16 NUT	5/16	INSTRUCTIONS 5/16			
	14 GA (0,070)		THREAD CUTTING/TAPPING SCREW	ж		5/8	0.070	5 5/8 6 3/4	1			SEE FASTENER MANUFACTURER INSTRUCTIONS			GS TARI
	12 GA (0,099)						0.099	8						<u>*</u>	NIW NIN
ALUMINUM	1/8	6063-T5	BOLT W/ NUT	_	1/4-20	1/2	1/8	8	1	1/2 HEAD 9/16 NUT	5/16	1/4		that work	A DRAWINGS ANCHOR TABIF
			THREAD CUTTING/TAPPING SCREW	*						1/2		SEE FASTENER MANUFACTURER INSTRUCTIONS		(C) LITE BY WORKS". SCHOFED, WISSONSIN 54478, 841 8757	E NOA
		5 K2I		VARIES	1/4	1 1/2	1 1/2	4	5			1110 11100 112110			1 1.1.5
CONCRETE	VARIES WITH SIZE OF FASTENER USED, SEE FASTENER MANUFACTURER INSTRUCTIONS	3 K2I	BUILDEX TAPCON (BLUE, WHITE, OR 410 SS)		1/4	1 1/2	1 1/4	6	5	AS MANUFACTURED 1/4				K6746MDE	
		5.3 K2I	ELCO AGGRE-GATOR	300 22	1/4	1 1/2	1 3/8	6	3	AS MANUFACTURED	1/4	Approved as complying with the Florida Building Code Date <u>02/04/2016</u>	*	X6 FSR	
		2.9 KSI	ELCO ULTRACON SS4	410 SS	1/4	1 2 1/2	1 3/4	4	3	AS MANUFACTURED	1/4	NC	A# 15-1107.05 uni Dade Product Control		1
		3,4 KSI	ELCO CRETE-FLEX SS4, SMALL HEAD ELCO CRETE-FLEX SS4, FLANGED HEAD	410 SS	1/4	1	1 3/4	6 8	6	AS MANUFACTURED	1/4	By Africa		ALE:	
				316 SS	1/4	1 3/8	1 7/8	4		AS MANUFACTURED 7/16	5/16		,		
		2.5 KSI			3/8	1 1/8 1 5/8 2 3/8	2 3/8	4	1		SEE FASTENER MANUFACTURER INSTRUCTIONS				
		5 K2I	POWERS WEDGE-BOLT PLUS	STEEL	1/4	1 1/2	-	8 4 6 8	1	AS MANUFACTURED	5/16 7/16	ji	MINIMAN PARTIE	,	
		4 KSI				1 1 1/4 1 5/8		4 6 8				1 395. 7	No. 21939	111111111111111111111111111111111111111	
		4 KSI				1 1/4 1 5/8 2 1/8	1 1/2	4 6 8					ANTOF S	MITTITIES	
					3/8	1 1/8 1 3/8 1 3/4]	6 8	1 1/2) J	MINIONAL ENGINE		
	NOTE 1		ELCO AGGRE-GATOR	300 22	1/4	2	2	8	3		1/4		20%		
GROUT FILLED	NOTE 2 NOTE 3 NOTE 4		ELCO ULTRACON SS4	410 SS	1/4	2.5	2	2	1 ·1/2		1/4	SEE FASTENER MANUFACTURER			
			ELCO CRETE-FLEX \$\$4, FLANGED HEAD	410 SS	+	1 3/4	1 1/4	6	6		1/4	INSTRUCTIONS			
NMTE *: LAG 9			POWERS WEDGE-BOLT PLUS GTHS OF MINIMUM GRADE 1 STEEL, OTHER BOLT AND S	STEEL		E STRENC	2 1/2	8 	6 8 8 7 7	<u> </u>	7/16	<u> </u>			
			BE > THE FOLLOWING 6' WIDE, CMU CONFORMING TO						אחר כ 215			_			
			BE > THE FOLLOWING: 6' WIDE, 2 KSI CMU CONFORMI								 -	.			
			BE > THE FOLLOWING 6' WIDE, CONFORMING TO ASTM								_		1	සි	
			BE > THE FOLLOWING 6' WIDE, GRADE N, TYPE II, L										{	<u>F</u>	

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